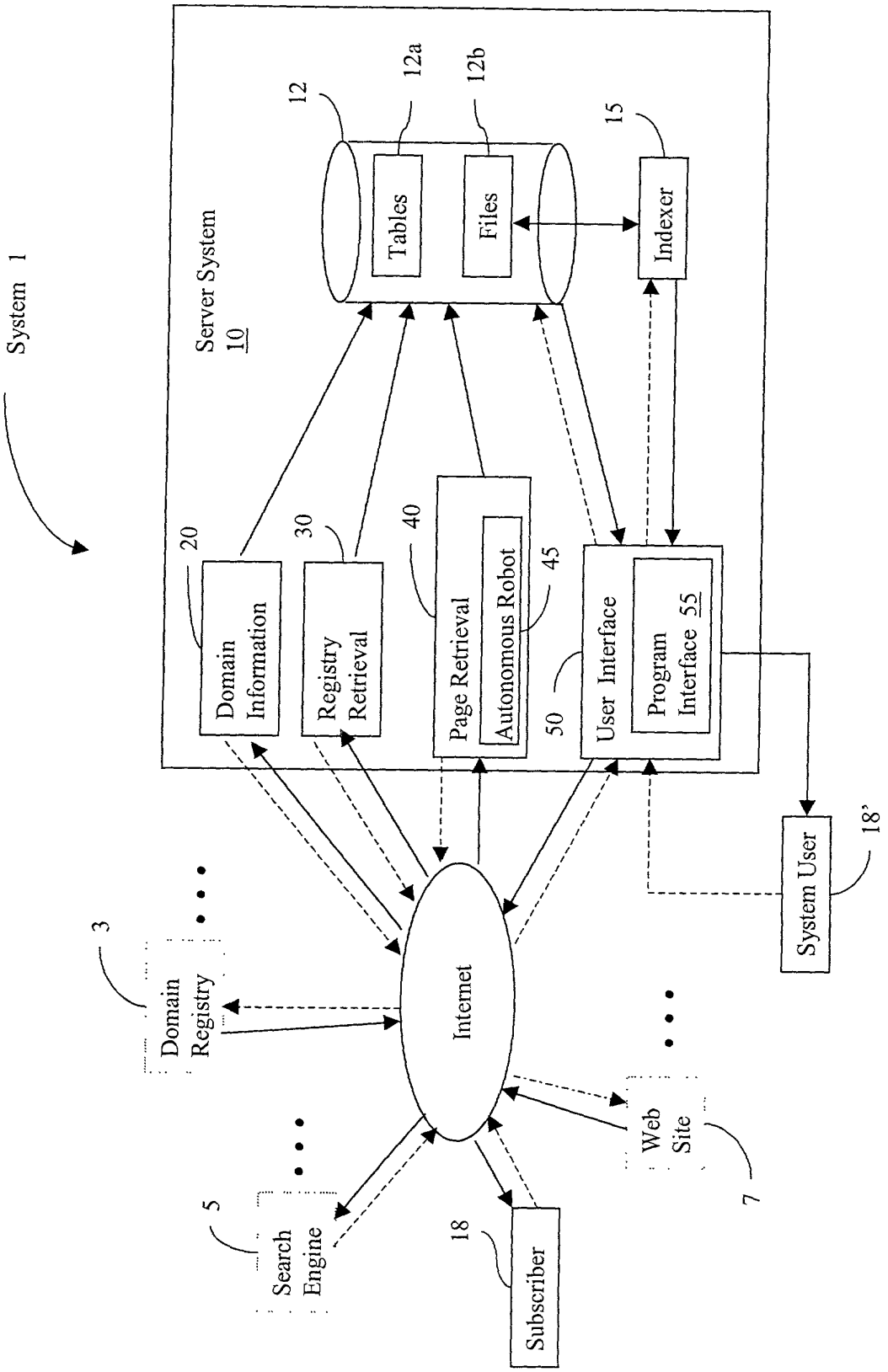
System 1
Server System
10
12
12a
12b
Tables
Files
15
Indexer
20
Domain Information
30
Registry Retrieval
40
Page Retrieval
Autonomous Robot
45
50
User Interface
Program Interface 55
Internet
3
Domain Registry
5
Search Engine
18
Subscriber
Web Site
7
System User
18'

FIG. 1

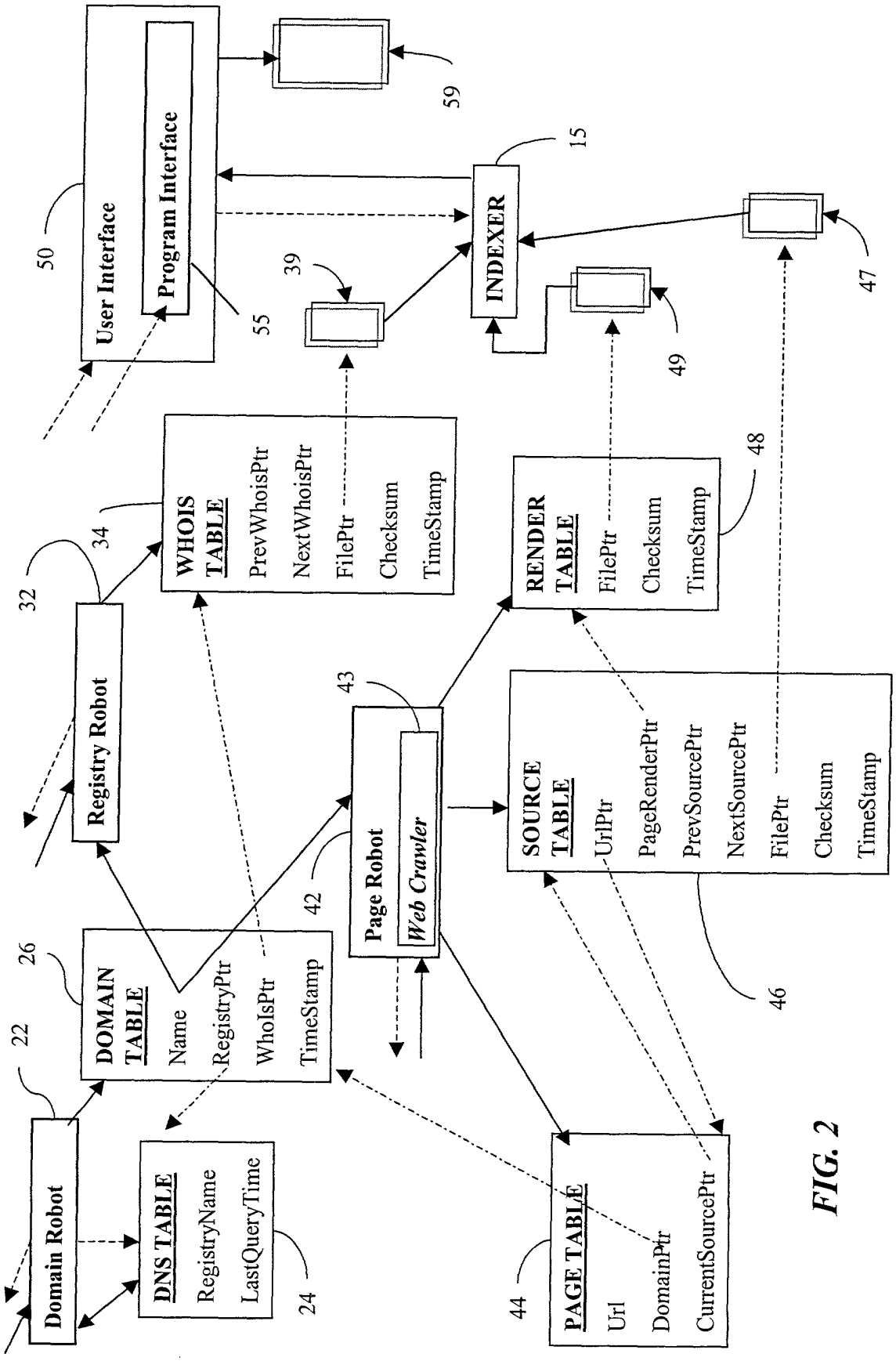
User Interface
Program Interface
50
55
59
39
INDEXER
15
47
49
WHOIS TABLE
PrevWhoisPtr
NextWhoisPtr
FilePtr
Checksum
TimeStamp
34
32
RENDER TABLE
FilePtr
Checksum
TimeStamp
48
Registry Robot
43
Page Robot
Web Crawler
42
SOURCE TABLE
UrlPtr
PageRenderPtr
PrevSourcePtr
NextSourcePtr
FilePtr
Checksum
TimeStamp
46
DOMAIN TABLE
Name
RegistryPtr
WhoIsPtr
TimeStamp
26
22
Domain Robot
DNS TABLE
RegistryName
LastQueryTime
24
PAGE TABLE
Url
DomainPtr
CurrentSourcePtr
44

FIG. 2

39

```
[whois crsnic net]Whois Server Version 1 3Domain names in the  com,  net, and  org domains can now be registered
with many different competing registrars  Go to http //www internic net
for detailed information    Domain Name  TRIEVE COM
   Registrar  THE NAME IT CORPORATION DBA AITDOMAINS COM
   Whois Server  whois aitdomains com
   Referral URL  http //www aitdomains com
   Name Server  NS0 NAMEIT NET
   Name Server  NS1 NAMEIT NET
   Updated Date  05-aug-2000
The Registry database contains ONLY  COM,  NET,  ORG,  EDU domains and
Registrars

[whois aitdomains com]

 The Data in THE AIT DOMAINS CORPORATION ' WHOIS database is provided
 by THE AIT DOMAINS  CORPORATION for information purposes, and to assist
 persons in obtaining information about or related
 to a domain name registration record
 THE AIT DOMAINS CORPORATION  does not guarantee its accuracy   By submitting a
 WHOIS query, you agree that you will use this Data only for lawful
 purposes and that, under no circumstances will you use this Data to
 (1) allow, enable, or otherwise support the transmission of mass
 unsolicited, commercial advertising or solicitations via e-mail
 (spam), or  (2) enable high volume, automated, electronic processes
 that apply to THE AIT DOMAINS CORPORATION  (or its systems)

 THE AIT DOMAINS CORPORATION reserves the right to modify these terms at any time
 By submitting this query, you agree to abide by this policy



Registrant


 Rodney  Johnson
 57 Pine Street

 Needham
 MA  US  02492
 rdj home@bigfoot com

Phone  781-449-9479
Fax  781-444-3418

Domain Name  trieve com

Administrative Contact
 Rodney  Johnson
 57 Pine Street

 Needham
 MA  US
 02492
 rdj home@bigfoot com

Phone  781-449-9479
Fax  781-444-3418

Technical Contact
 Rodney  Johnson
 57 Pine Street

 Needham
 MA  US
 02492
 home@dowjo com

Phone  781-696-3516
Fax  781-444-3418

Billing Contact
 Rodney  Johnson
 57 Pine Street

 Needham
 MA  US
 02492
 home@dowjo com

Phone  781-696-3516
Fax  781-444-3418

Record Created on          2000-02-05 12 53 46 000
Record last updated on     2000-08-05 00 13 25 000
Expire on                  2002-02-05 12 54 10 000

  Domain servers in listed order


  ns0 nameit net 208 234 1 116
  ns1 nameit net

Register Your Domain at www aitdomains com
```

FIG.3

47

```
<html xmlns:v="urn:schemas-microsoft-com:vml"
xmlns:o="urn:schemas-microsoft-com:office:office"
xmlns:w="urn:schemas-microsoft-com:office:word"
xmlns:dt="uuid:C2F41010-65B3-11d1-A29F-00AA00C14882"
xmlns="http://www.w3.org/TR/REC-html40">

<head>
<meta name="Microsoft Theme 2.00" content="blends 011">
<meta http-equiv=Content-Type content="text/html; charset=windows-1252">
<meta name=ProgId content=Word.Document>
<meta name=Generator content="Microsoft Word 9">
<meta name=Originator content="Microsoft Word 9">
<link rel=File-List href="./Trieve_files/filelist.xml">
<link rel=Edit-Time-Data href="./Trieve_files/editdata.mso">
<!--[if !mso]>
<style>
v\:* {behavior:url(#default#VML);}
o\:* {behavior:url(#default#VML);}
w\:* {behavior:url(#default#VML);}
.shape {behavior:url(#default#VML);}
</style>
<![endif]-->
<title>Trieve Solutions Home</title>
<!--[if gte mso 9]><xml>
 <o:DocumentProperties>
  <o:Author>Rod Johnson</o:Author>
  <o:Template>Normal</o:Template>
  <o:LastAuthor>Rod Johnson</o:LastAuthor>
  <o:Revision>3</o:Revision>
  <o:TotalTime>20</o:TotalTime>
  <o:LastPrinted>2000-09-07T19:33:00Z</o:LastPrinted>
  <o:Created>2000-09-08T04:13:00Z</o:Created>
  <o:LastSaved>2000-09-10T16:10:00Z</o:LastSaved>
  <o:Pages>2</o:Pages>
  <o:Words>215</o:Words>
  <o:Characters>1228</o:Characters>
  <o:Company>HBSR</o:Company>
  <o:Lines>10</o:Lines>
  <o:Paragraphs>2</o:Paragraphs>
  <o:CharactersWithSpaces>1508</o:CharactersWithSpaces>
  <o:Version>9.2720</o:Version>
 </o:DocumentProperties>
</xml><![endif]--><!--[if gte mso 9]><xml>
 <w:WordDocument>
  <w:DisplayHorizontalDrawingGridEvery>0</w:DisplayHorizontalDrawingGridEvery>
  <w:DisplayVerticalDrawingGridEvery>0</w:DisplayVerticalDrawingGridEvery>
  <w:UseMarginsForDrawingGridOrigin/>
  <w:Compatibility>
   <w:FootnoteLayoutLikeWW8/>
   <w:ShapeLayoutLikeWW8/>
   <w:AlignTablesRowByRow/>
   <w:ForgetLastTabAlignment/>

...
```

FIG. 4

TOGT20 "20960660

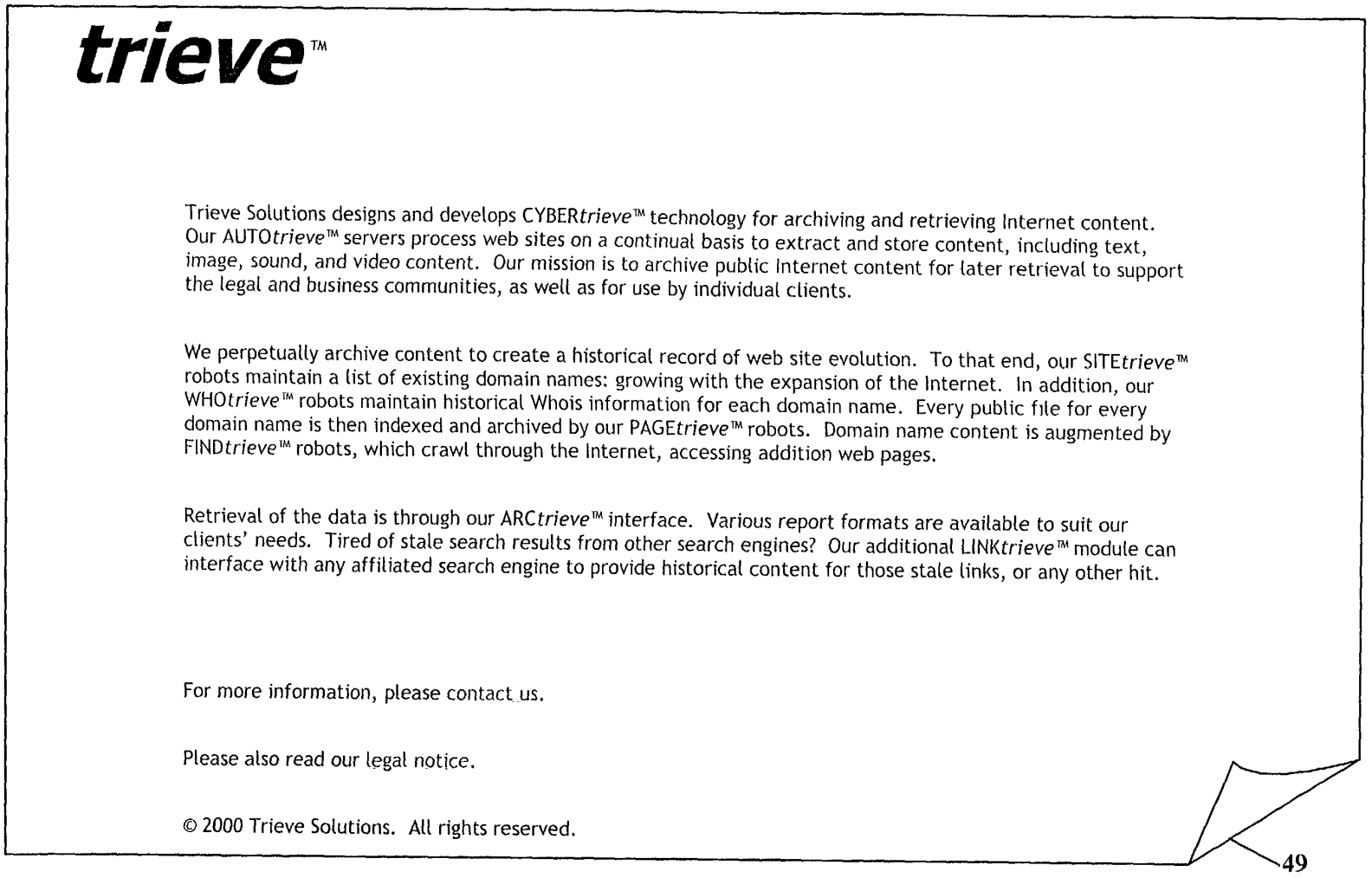

FIG. 5

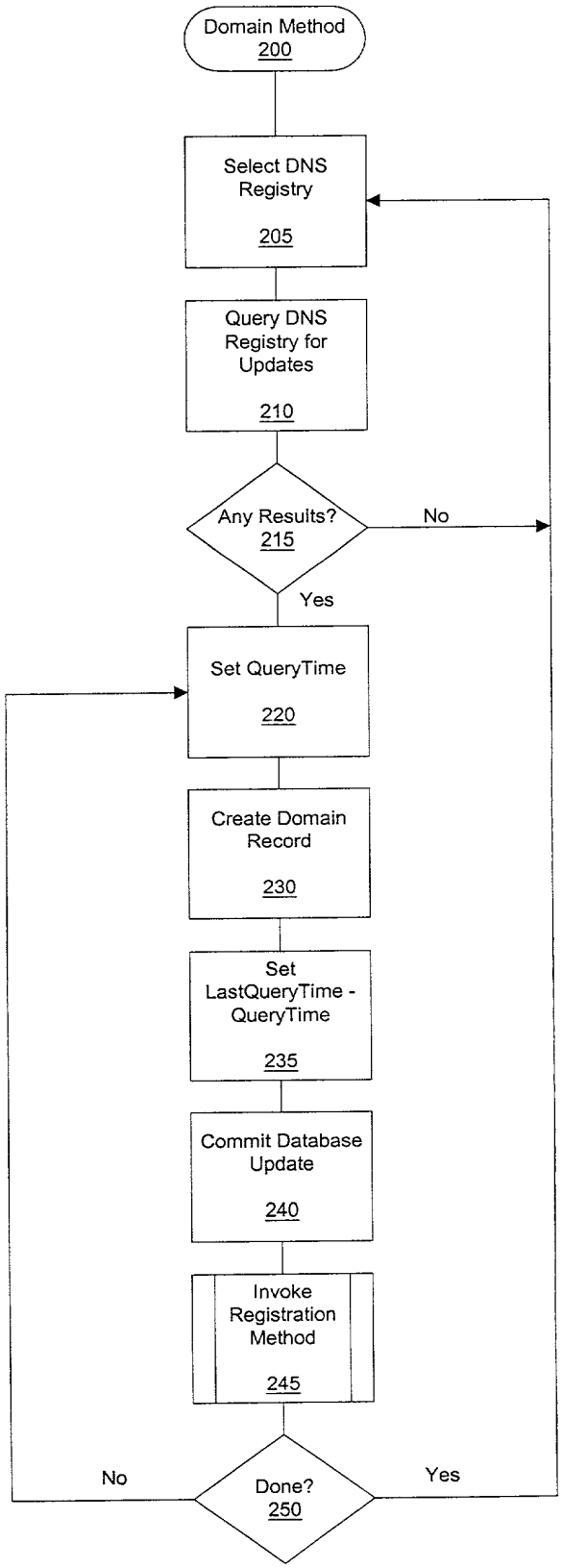
Domain Method
200
Select DNS Registry
205
Query DNS Registry for Updates
210
Any Results?
215
No
Yes
Set QueryTime
220
Create Domain Record
230
Set LastQueryTime - QueryTime
235
Commit Database Update
240
Invoke Registration Method
245
Done?
250
No
Yes

FIG. 6

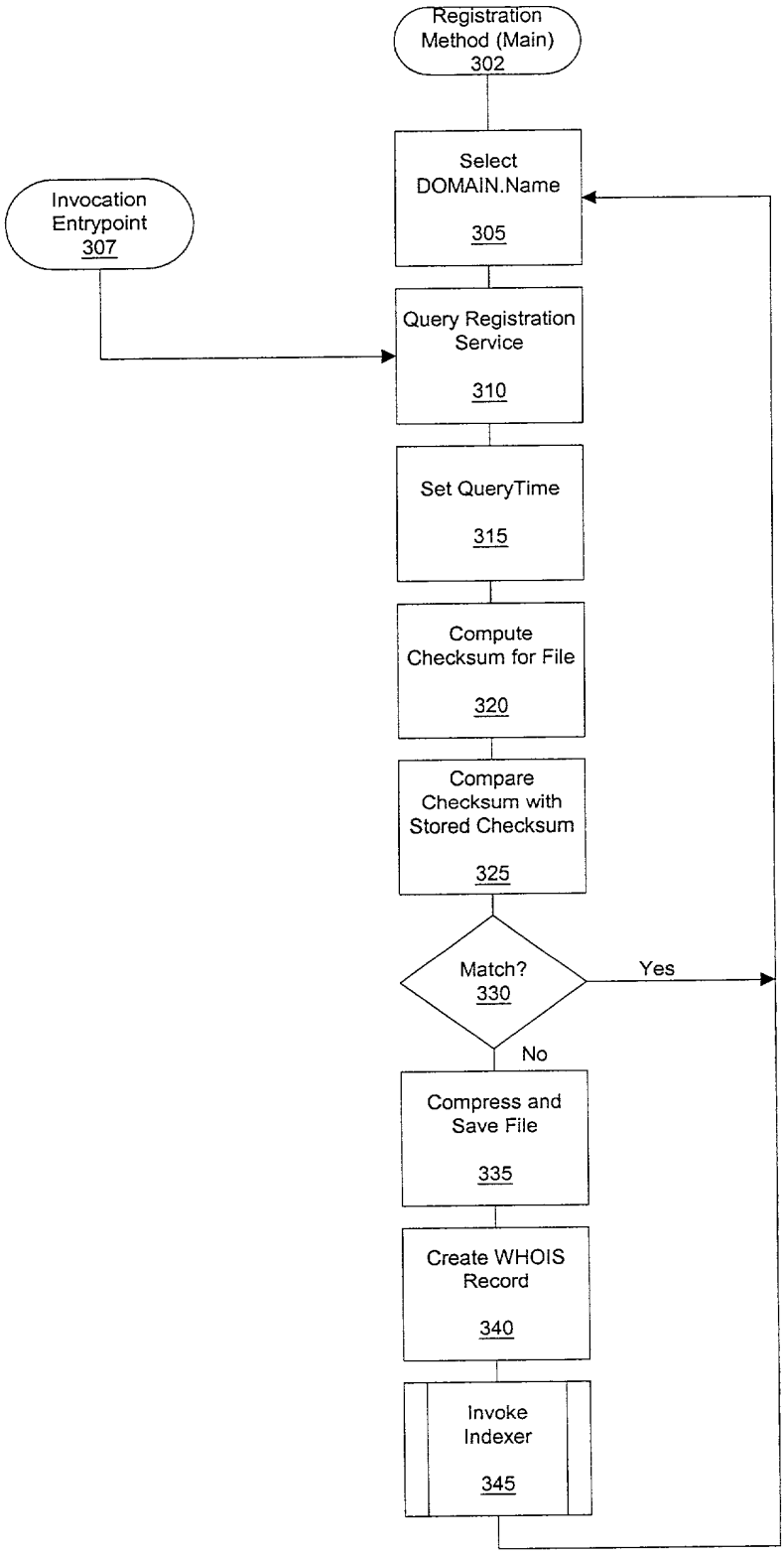
Registration Method (Main) 302
Select DOMAIN.Name 305
Invocation Entrypoint 307
Query Registration Service 310
Set QueryTime 315
Compute Checksum for File 320
Compare Checksum with Stored Checksum 325
Match? 330
Yes
No
Compress and Save File 335
Create WHOIS Record 340
Invoke Indexer 345

FIG. 7

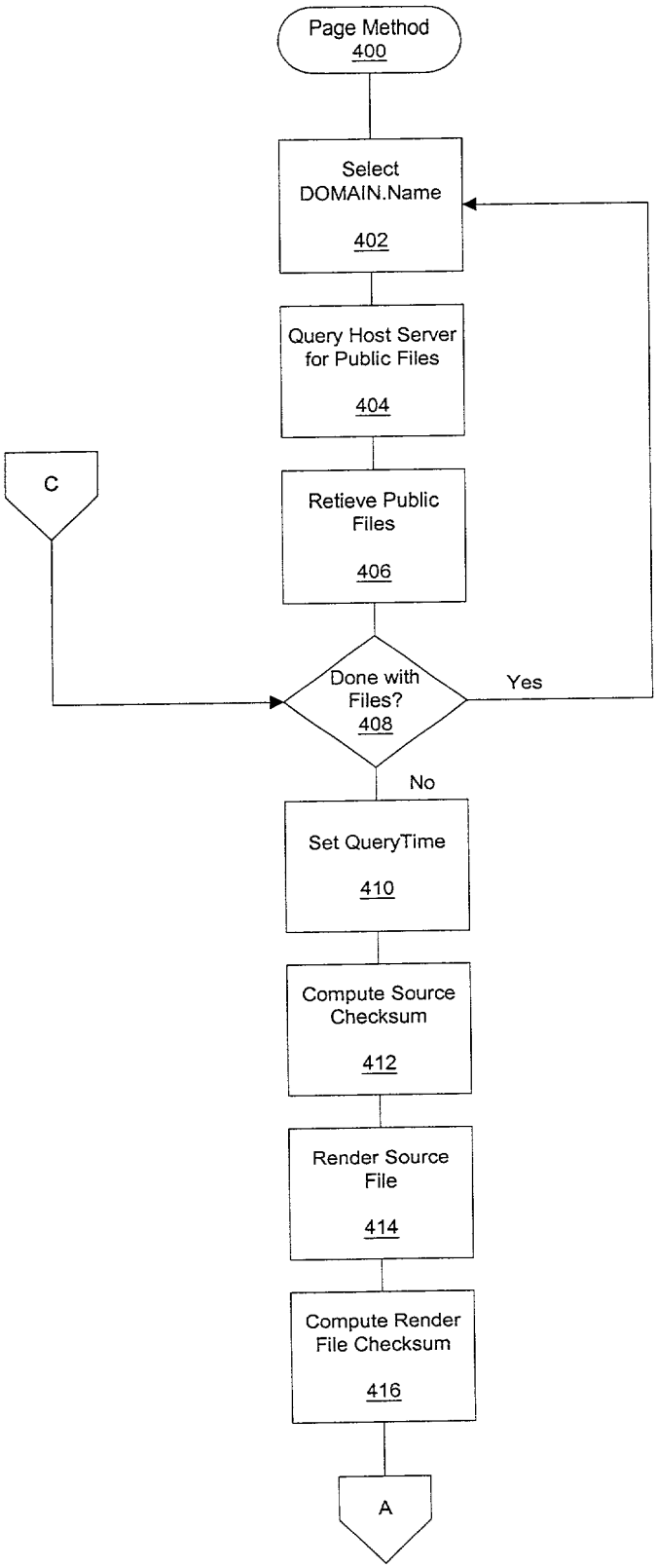
Page Method
400
Select
DOMAIN.Name
402
Query Host Server
for Public Files
404
Retieve Public
Files
406
C
Done with
Files?
408
Yes
No
Set QueryTime
410
Compute Source
Checksum
412
Render Source
File
414
Compute Render
File Checksum
416
A

FIG. 8A

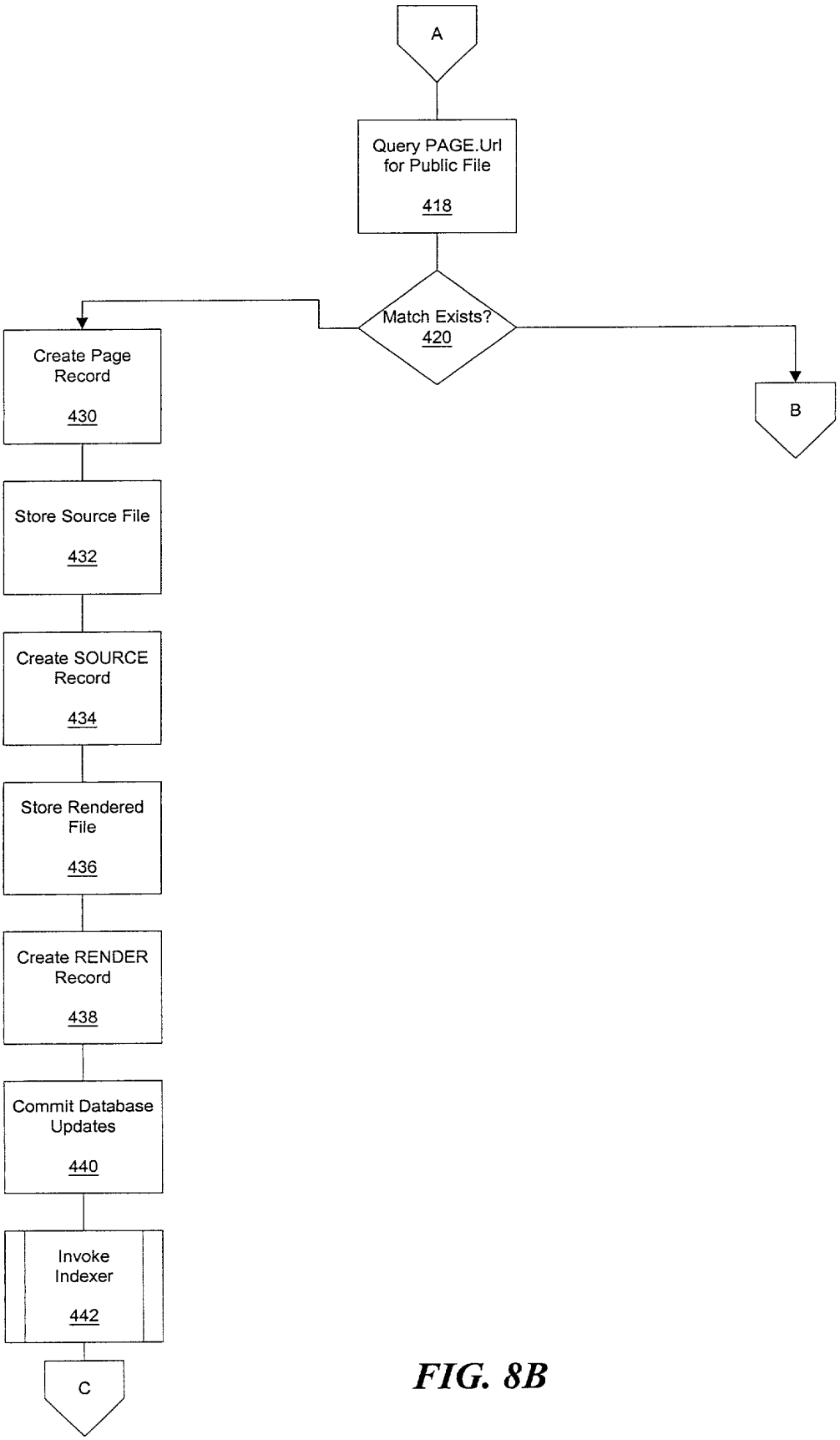

FIG. 8B

Attorney Docket No. 2961.1000-001

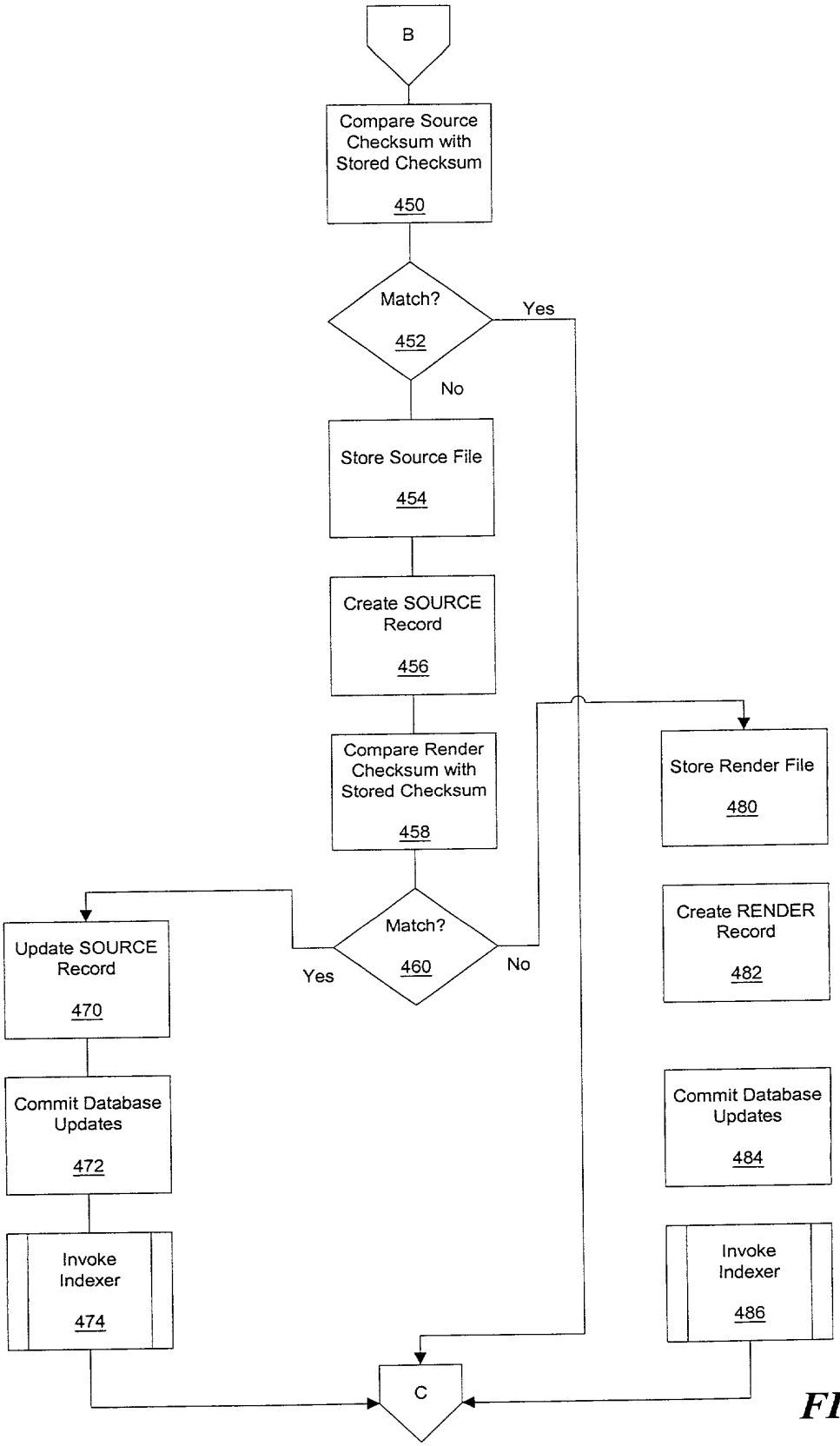
B
Compare Source Checksum with Stored Checksum
450
Match?
452
Yes
No
Store Source File
454
Create SOURCE Record
456
Compare Render Checksum with Stored Checksum
458
Match?
460
Yes
No
Update SOURCE Record
470
Commit Database Updates
472
Invoke Indexer
474
Store Render File
480
Create RENDER Record
482
Commit Database Updates
484
Invoke Indexer
486
C

FIG. 8C

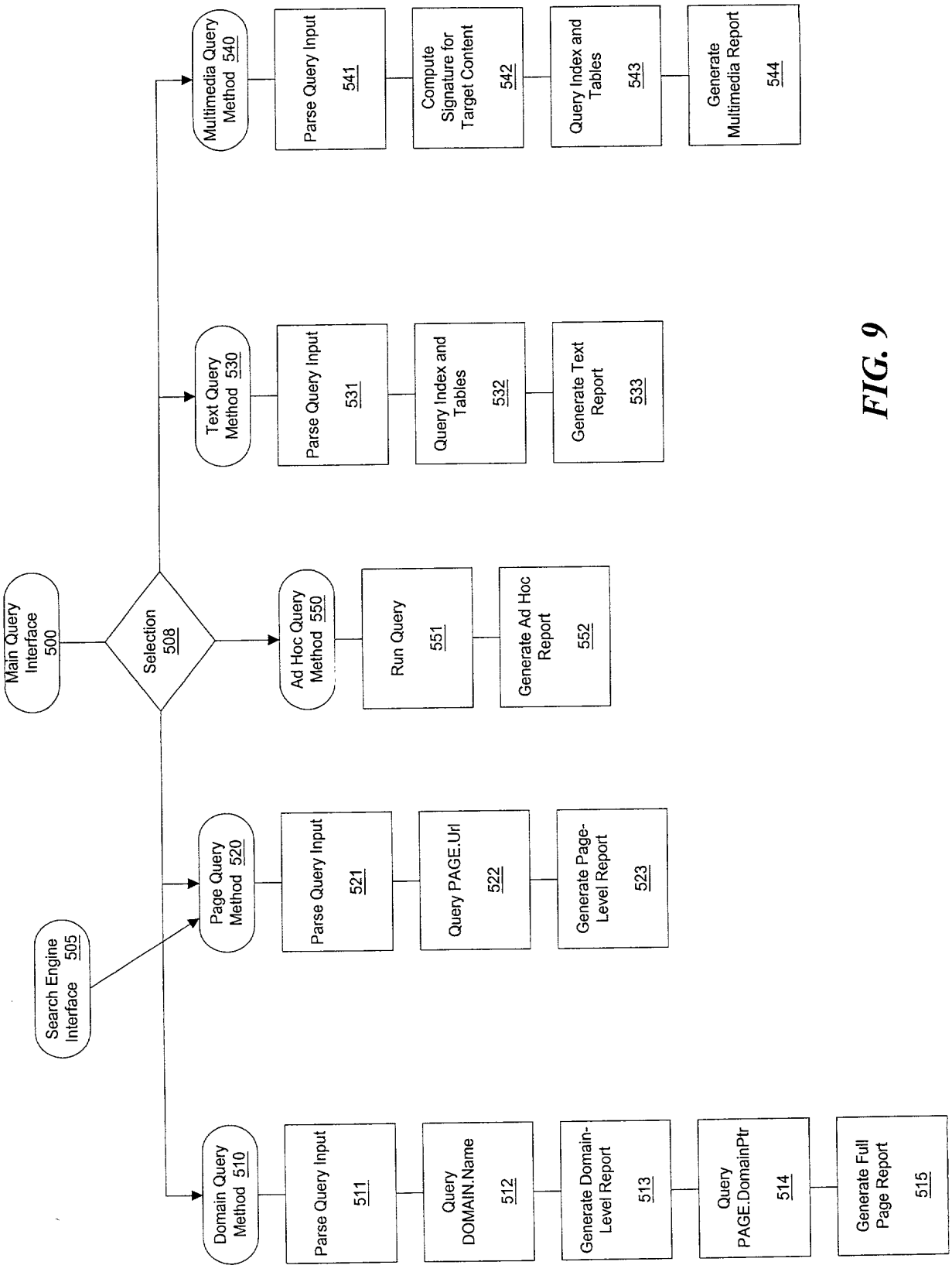
Main Query Interface 500
Search Engine Interface 505
Selection 508
Domain Query Method 510
Parse Query Input 511
Query DOMAIN.Name 512
Generate Domain-Level Report 513
Query PAGE.DomainPtr 514
Generate Full Page Report 515
Page Query Method 520
Parse Query Input 521
Query PAGE.Url 522
Generate Page-Level Report 523
Ad Hoc Query Method 550
Run Query 551
Generate Ad Hoc Report 552
Text Query Method 530
Parse Query Input 531
Query Index and Tables 532
Generate Text Report 533
Multimedia Query Method 540
Parse Query Input 541
Compute Signature for Target Content 542
Query Index and Tables 543
Generate Multimedia Report 544

FIG. 9

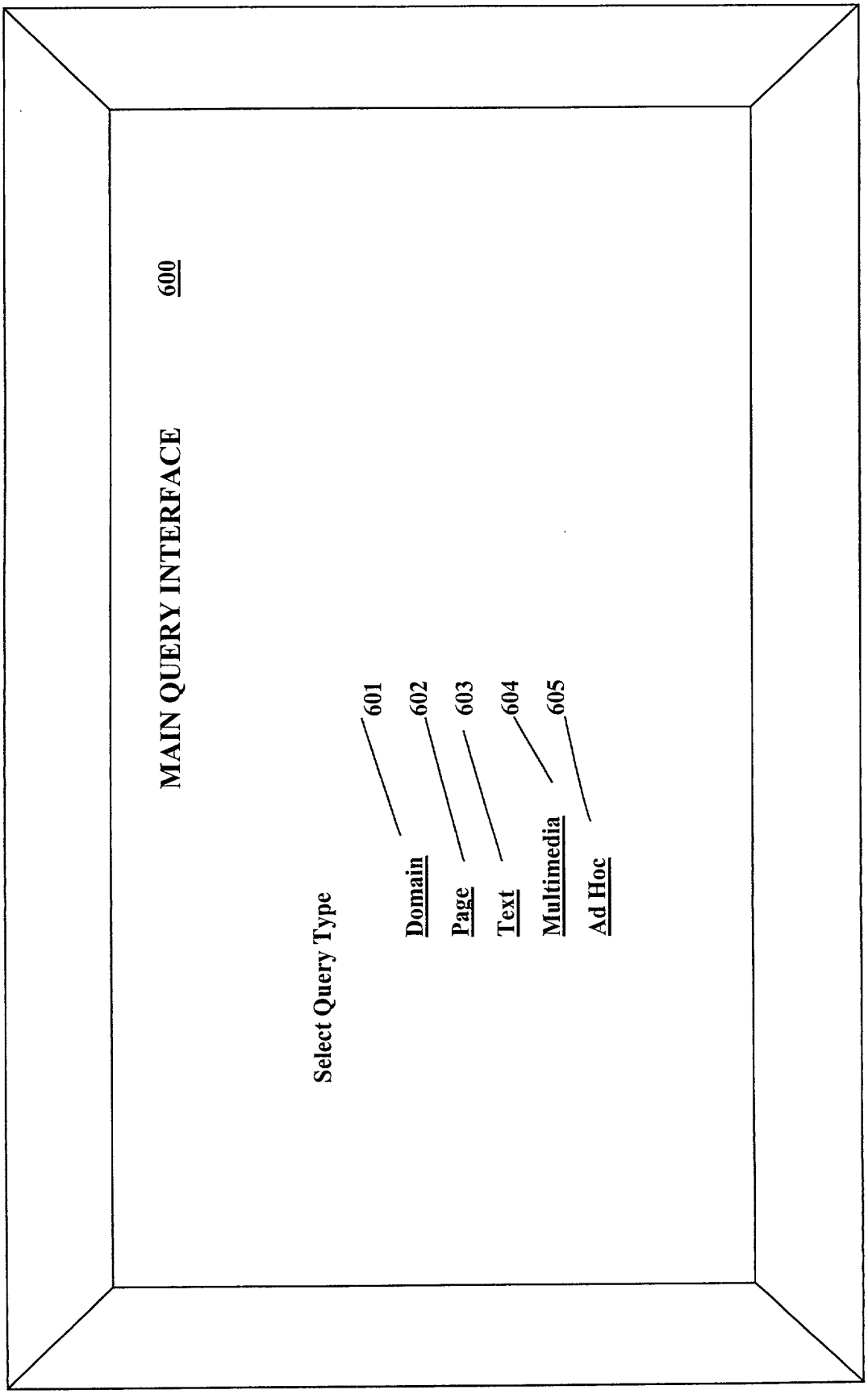
MAIN QUERY INTERFACE
600
Select Query Type
601
Domain
602
Page
603
Text
604
Multimedia
605
Ad Hoc

FIG. 10

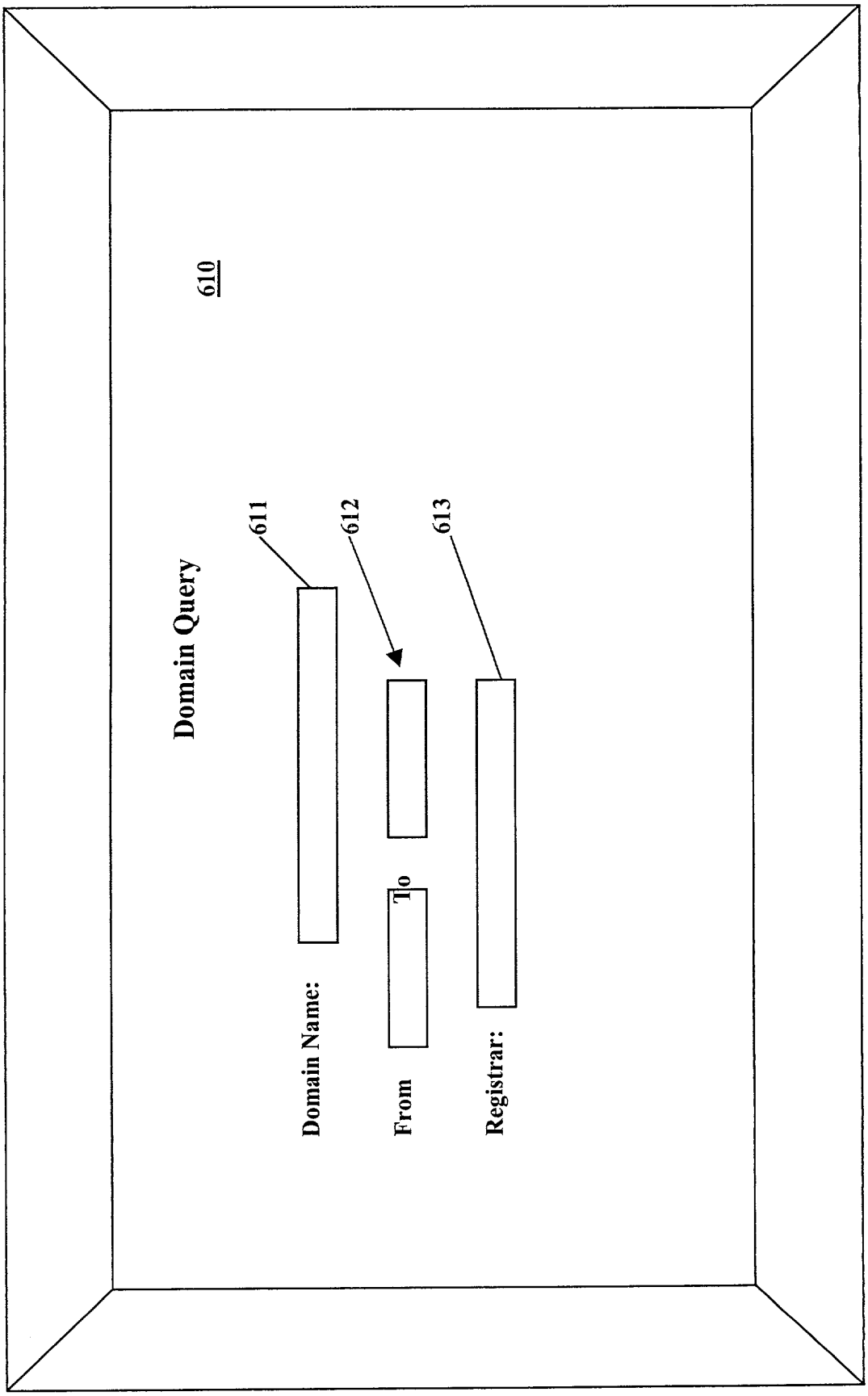

FIG. 11

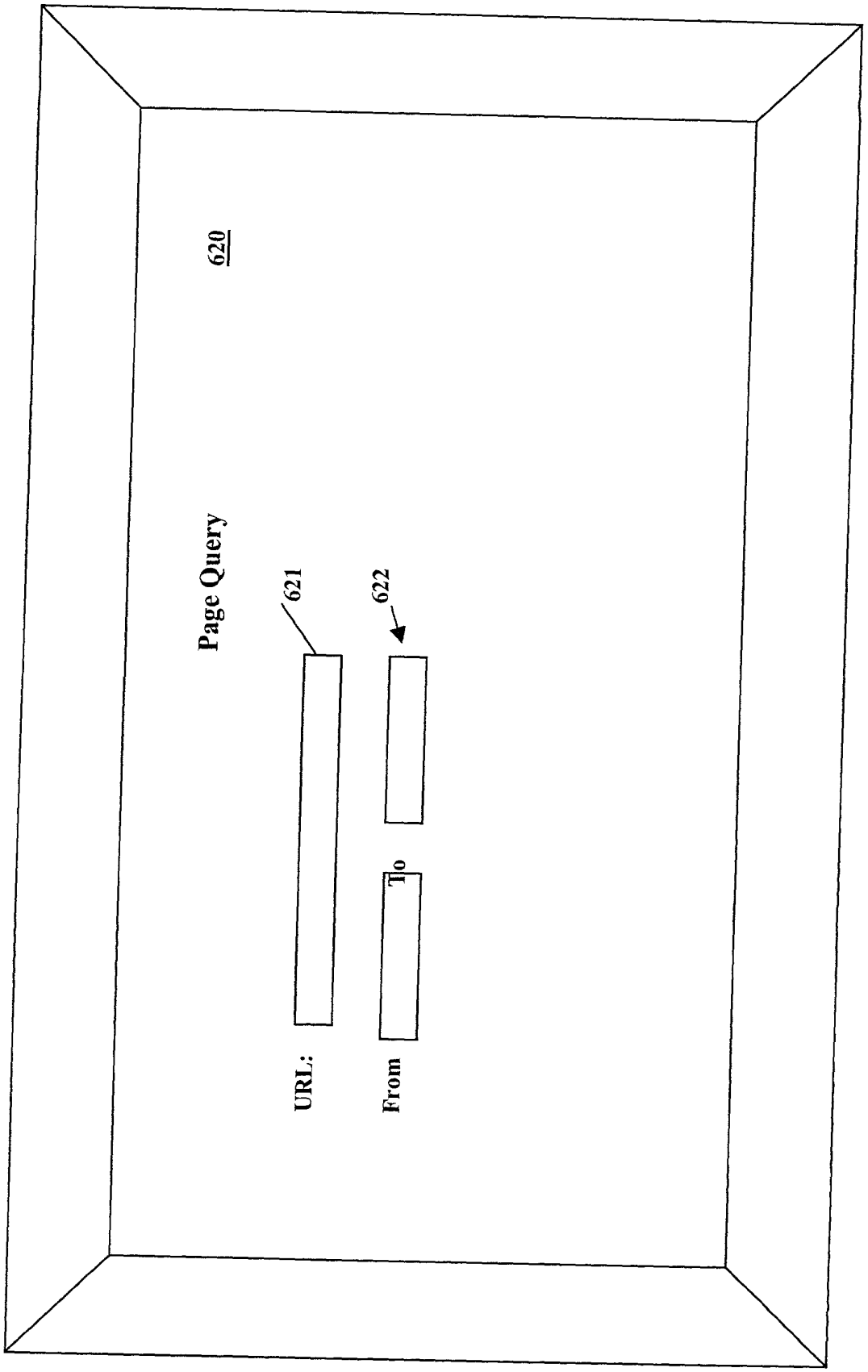

FIG. 12

EXPRESS MAIL

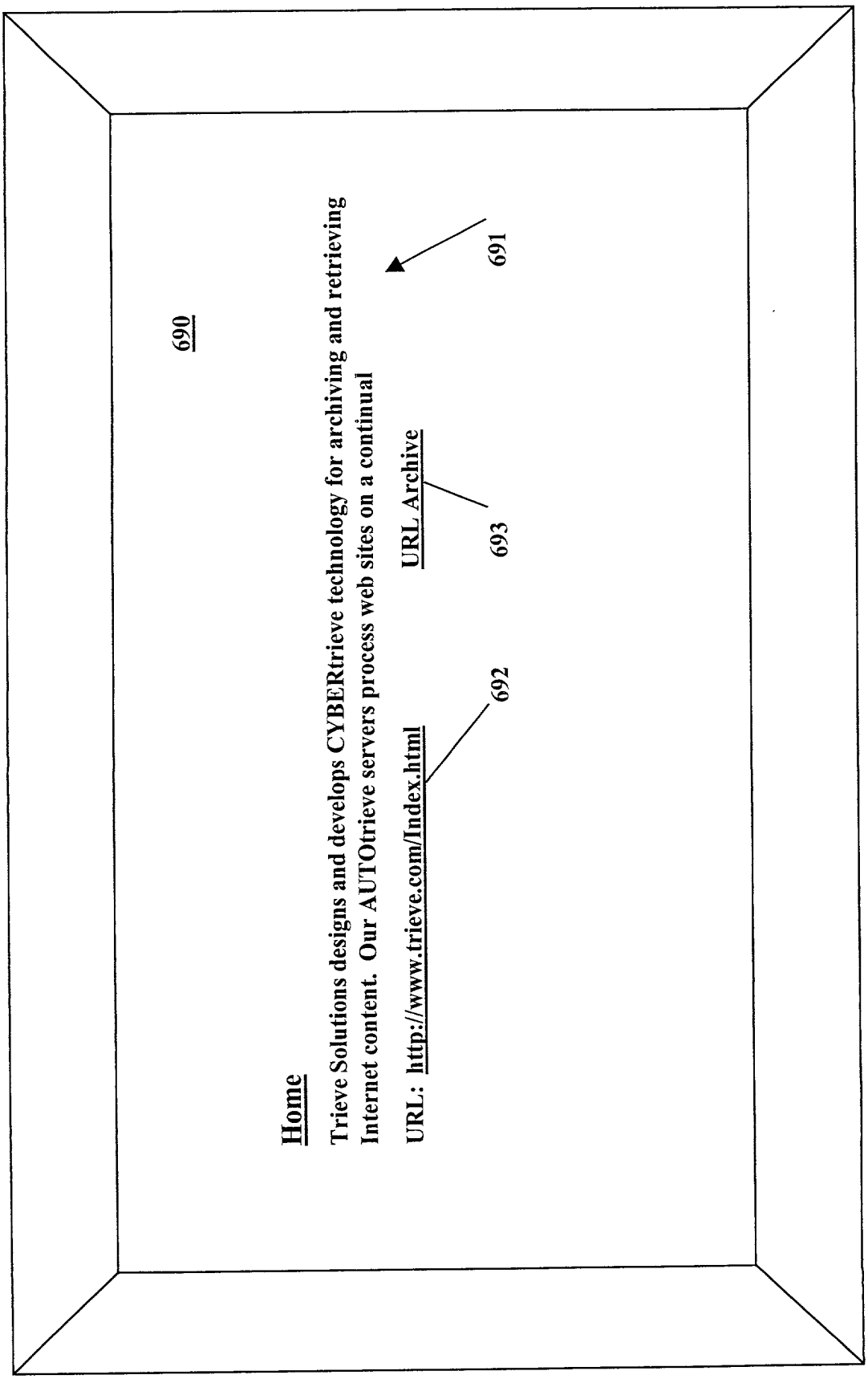
690
Home
Trieve Solutions designs and develops CYBERtrieve technology for archiving and retrieving Internet content. Our AUTOtrieve servers process web sites on a continual
URL: http://www.trieve.com/Index.html
URL Archive
691
692
693

FIG. 13

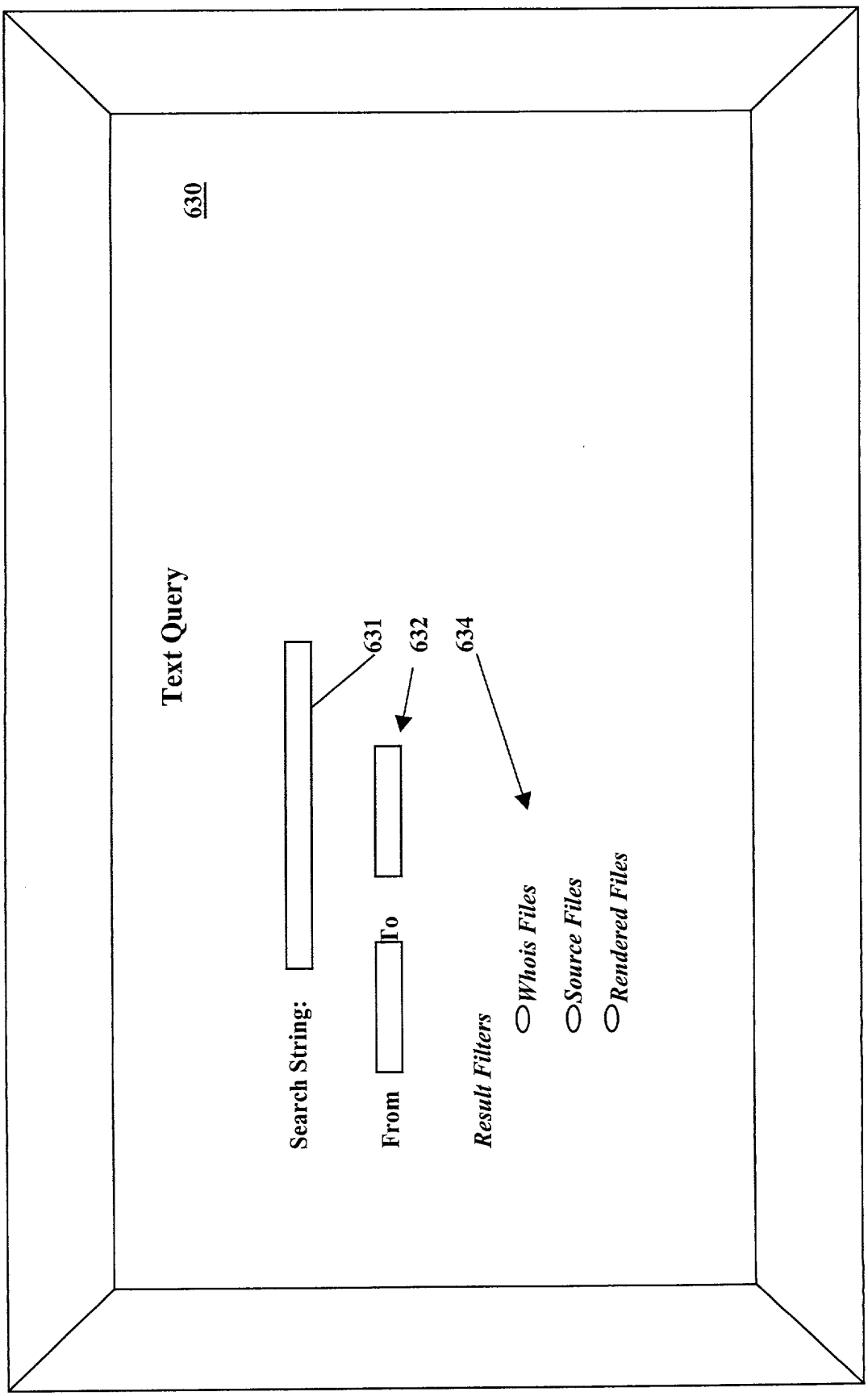
630
Text Query
631
632
634
Search String:
From
To
Result Filters
Whois Files
Source Files
Rendered Files

FIG. 14

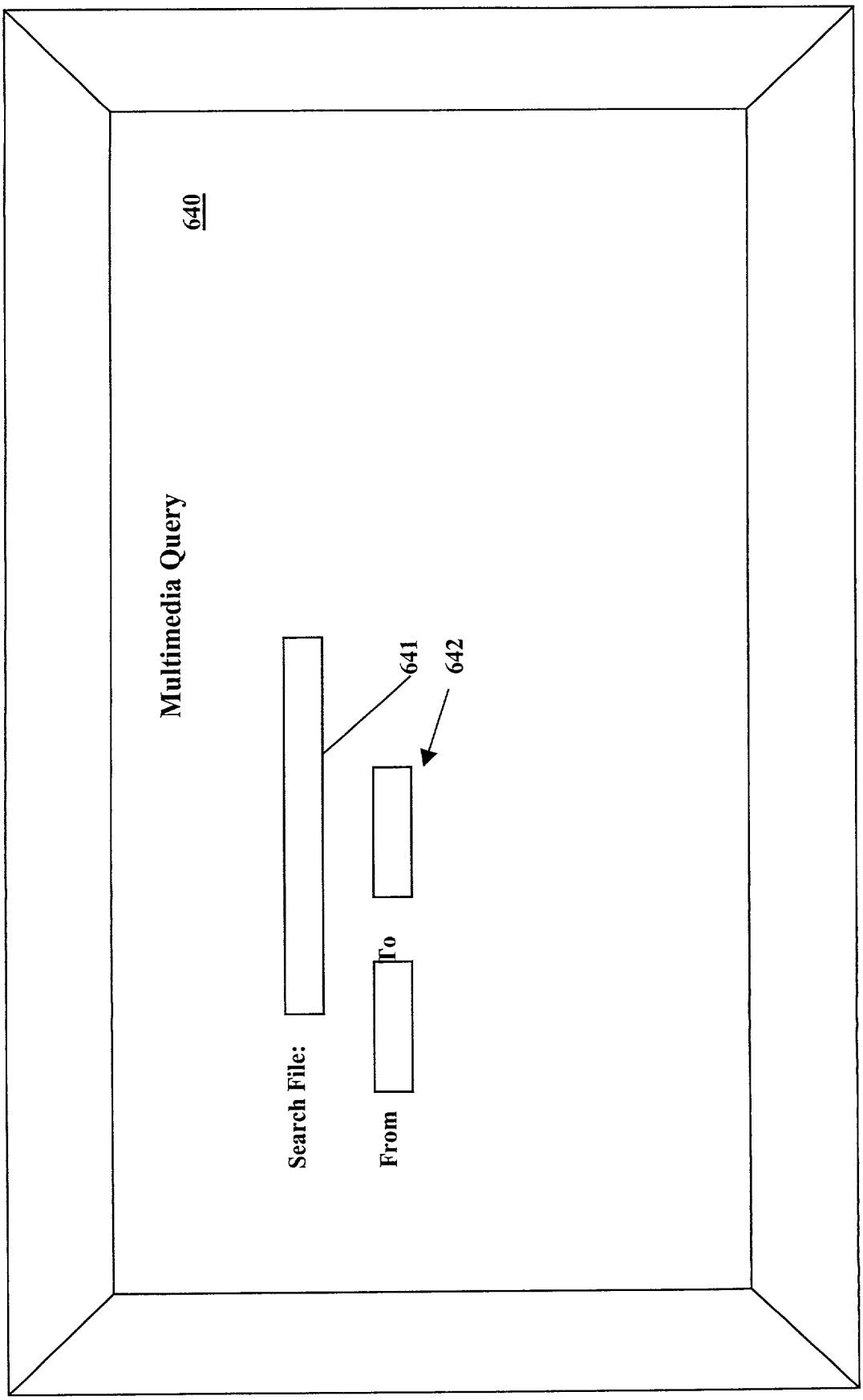

FIG. 15

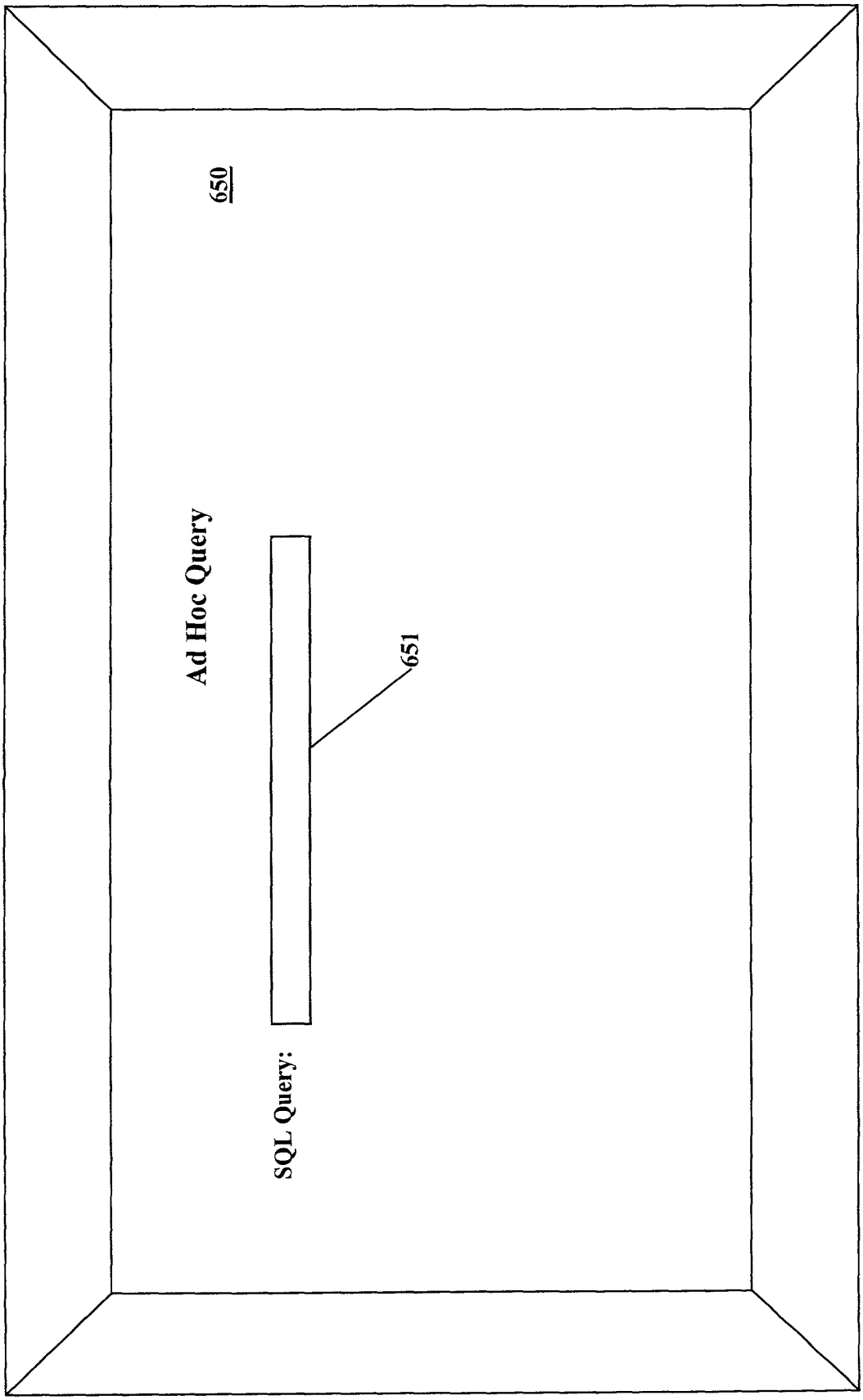

FIG. 16